IOTRON™ SENSORS
ION SELECTIVE SENSOR SPECIFICATIONS

Part number:	AB 8610
Configuration:	1" Twist Lock, Integrated Chloride Ion Selective Sensor
General Specifications:	
Concentration Range:	4.4 to 10^{-4} Molar, 156,00 to 3.545 ppm
Lowest Limit of Detection:	10^{-5} Molar, .355 ppm (355 ppb)
pH Range:	2 to 12 pH
Temperature Range:	5 to 40 ^{o}C
Pressure Range:	1 to 10 psig (6.9 to 69 kPag)
Body Material:	Ultem (Poly-Ether-Imide)
Junction Material:	Kynar (Poly-Vinylidene-Fluoride)
Dimensions:	Drawing <8-2>
Cable:	RG 174/U Coaxial (without preamplifier)
Connector:	BNC (unless otherwise specified)
Ion Sensor Specifications:	
Measuring Membrane:	Selective Chloride Sensitive Membrane (organic)
Dimensions:	0.310, (7.8 mm) DIA
Initial Impedance:	Less than 100 M Ohms @ 25 ^{o}C
Interferring Ions: Given in Ratios of Permissible Excess:	HCO_3^- (6.3X10^4),HPO_4^- (8X10^6), SO_4^- (2.5X10^6),
Interferring Ion / Measured Ion (in Molarity)	F^- (4X10^6), NO_3^- (4X10^6), ClO_4^- (3.2X10^4),
Reference System Specifications:	
Type:	Double Junction
Reference Half Cell:	Ag/AgCl, Saturated KCl
Primary Junction:	Porous Ceramic, Saturated KCl in crosslinked polymer
Secondary Junction:	Porous Kynar, Saturated with KNO_3 in crosslinked polymer
Surface Area:	366,000 mil^2, (236 mm^2)
Special Features:	Crosslinked polymer in the reference system is resistant to heat, solvents and to most chemicals. Sensor holds an excess of Na_2SO_4assuring saturation at all temperatures and extending the life of the sensor. The sensor is designed to resist the interactions of a wide range of chemicals and some solvents used in chemical processes. The construction of the sensor permits easy access to the sensing and reference surfaces for cleaning or inspection.
Recommended Applications:	Nitrite ion concentration in aqueous solution from ultrapure water through waste water to industrial process solutions.
Storage and Shelf Life:	At room temperature with closed protector cap, 1 year from date of manufacture.
Standard Hook-Up Options:	No Preamp - BNC Connector + TC lead wires With Preamp – Multiconductor Lead Wires – See Hook Up Schematics

***A**dvanced **S**ensor **T**echnologies, **I**nc.* 603 North Poplar Street, Orange, CA 92868-1011
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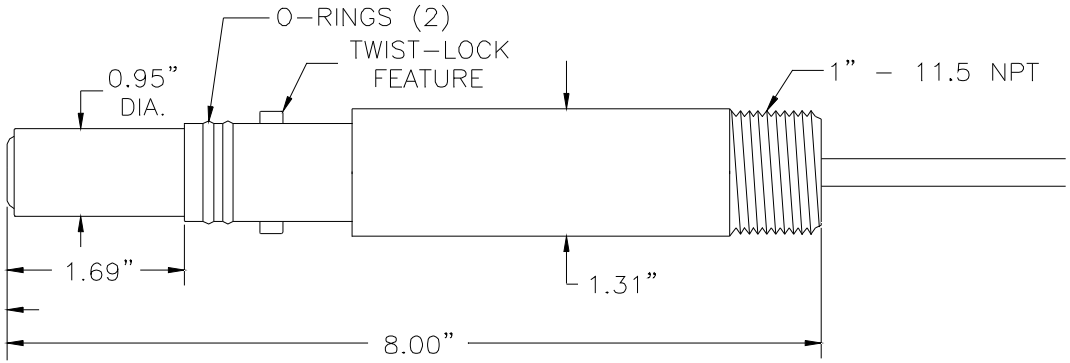
REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
2	1			



ASTI	ASTI *Advanced Sensor Technologies, Inc.*			
	ION SELECTIVE SENSOR REF. DRAWING <8-2>			
DIMENSION	SIZE 2	WEB NO #<8-2>	DWG NO. ASTIAB8-2.DWG	REV 1
DRAWN BY: PETE CSISZAR	SCALE NONE	DATE: MARCH, 2003	SHEET 1 OF 1	